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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,433	02/16/2006	Michael Goldberg	817.1013US 9801	
	90 01/19/200 AVIDSON & KAPPE	EXAMINER		
485 SEVENTH AVENUE, 14TH FLOOR NEW YORK, NY 10018			LUKTON, DAVID	
NEW YORK, N	1 10018		ART UNIT	PAPER NUMBER
			1654	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVER	Y MODE
3 MONTHS		01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applica	tion No.	Applicant(s)		
Office Action Summary		10/541	433	GOLDBERG ET AL.		
		Examin	er	Art Unit		
		David L		1654		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FC CHEVER IS LONGER, FROM THE MA naisons of time may be available under the provisions o SIX (6) MONTHS from the mailing date of this commo partid for reply is specified above, the maximum state partid for reply is specified above, the maximum state reply received by the Office later than three months at departner may adjustment. See 37 CFR 1794(b).	ALING DATE OF far	THIS COMMUNICATION event, however, may a reply be tire will expire SIX (6) MONTHS from	N. nely filed the mailing date of this communication.		
Status						
1)⊠	Responsive to communication(s) filed	on 05 October 20	06			
3)□	tince this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	·				
4)⊠	Claim(s) 1-25 27-29 and 31-39 is/are	nending in the one	diantina			
	 4) Claim(s) 1-25,27-29 and 31-39 is/are pending in the application. 4a) Of the above claim(s) 2-4,29 and 35 is/are withdrawn from consideration. 					
	5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1,5-22,27,28,31 and 36-39</u> is/are rejected.					
	7)⊠ Claim(s) <u>23-25 and 32-34</u> is/are objected to.					
	8) Claim(s) are subject to restriction and/or election requirement.					
			roquirement.			
	on Papers					
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
		by the Examiner. N	ote the attached Office	Action or form PTO-152.		
	nder 35 U.S.C. § 119					
12) 🗆 /	Acknowledgment is made of a claim fo	r foreign priority ur	nder 35 U.S.C. § 119(a)	-(d) or (f).		
a) All b) Some * c) None of:						
1. ☐ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage					
* 0	application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
. 2	ee the attached detailed Office action t	for a list of the cert	ified copies not received	d.		
Attachment	(e)					
_	of References Cited (PTO-892)		л. П			
Notice	of Draftsperson's Patent Drawing Review (PTC	-948) ·	 Interview Summary (Paper No(s)/Mail Dat 	PTO-413)		
i) 🛛 Inform	ation Disclosure Statement(s) (PTO/SB/08)	,	5) Notice of Informal Pa			
	No(s)/Mail Date		6) Other:			
	demark Office v. 08-06)	Office Action Summa				

Pursuant to the directives of the response filed 10/5/06, claims 1, 27, 28, 31, 34-37 have been amended, and claims 26 & 30 cancelled. Claims 1-25, 27-29, 31-39 remain pending.

Applicants' election of Group 1 (claims 1-25, 29, 38, 39, limited to G1) is acknowledged. Also acknowledged are the species elections.

- a) the objective of the elected method is treatment of diabetes;
- b) the elected insulin is recombinant human insulin;
- c) the pharmaceutical formulation contains 4-CNAB and a pharmaceutically acceptable excipient (in addition to the insulin).

Pursuant to the elections, claims 2-4, 29 and 35 are withdrawn from consideration. Claims 1, 5-25, 27, 28, 31-34, 36-39 are examined in this Office action.

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Claim 27 is objected to because of a typographical error. In lines 2-3, the following phrase is present: "said oras! administration".

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The following is a quotation of 35 USC, §103 which forms the basis for all obviousness rejections set forth in the Office action:

Serial No. 10/541,433 Art Unit 1654

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103, the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made, absent any evidence to the contrary. Applicant is advised of the obligation under 37 C.F.R. 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 102.

Claims 1, 5-22, 27, 28, 31, 36-39 are rejected under 35 U.S.C. §103 as being unpatentable over Pilarski (USP 7137951) in view of Byrd (USP 7118762) or Moye Sherman (USP 7115663) or Ekwuribe (USP 7084114) or Ekwuribe (USP 7060675).

Pilarski discloses (col 30, line 59) administration of insulin at bedtime. Pilarski does not specify oral administration. Each of the secondary references discloses orally administrable forms of insulin.

Thus, it would have been obvious to use one of the orally administrable forms of insulin for the advantages cited therein.

[The examiner asserts that Pilarski is entitled to the priority date of 10/23/02. However, even it the priority date were 10/22/03, the fact is that the instantly

claimed invention is not described in any of the provisional applications.

The provisional applications make reference to "nighttime", but not "bedtime".

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Claims 1, 5-22, 27, 28, 31, 36-39 are rejected under 35 U.S.C. §103 as being unpatentable over Ekwuribe (USP 7060675).

Ekwuribe discloses (e.g., col 4, line 10; col 4, line 45) orally administrable insulin. Also disclosed (col 11, line 65) is administration at bedtime.

Thus, the claims are rendered obvious.

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Claims 1, 5-22, 27, 28, 31, 36-39 are rejected under 35 U.S.C. §103 as being unpatentable over Miller J. L. (Clinical Pharmacology and Therapeutics 53(3), 380-4, 1993) in view of (a) Mesiha Mounir S. (International Journal of Pharmaceutics 249(1-2), 1-5, 2002) or (b) Hosny Ehab A. (International Journal of Pharmaceutics 237(1-2), 71-6, 2002) or (c) Clement Stephen (Diabetes Technology & Therapeutics 4(4), 459-66, 2002).

Miller discloses that administering insulin at bedtime is beneficial. Miller does not disclose oral administration of insulin. However, each of the secondary references discloses orally administrable insulin, and the benefits associated therewith.

Accordingly, it would have been obvious to one of ordinary skill to use orally administrable insulin at bedtime.

Claims 1, 5-22, 27, 28, 31, 36-39 are rejected under 35 U.S.C. §103 as being unpatentable over Yki-Jarvinen H. (Annals of internal medicine 130(5), 389-96, 1999) in view of (a) Mesiha Mounir S. (International Journal of Pharmaceutics 249(1-2), 1-5, 2002) or (b) Hosny Ehab A. (International Journal of Pharmaceutics 237(1-2), 71-6, 2002) or (c) Clement Stephen (Diabetes Technology & Therapeutics 4(4), 459-66, 2002).

Yki-Jarvinen discloses that administering insulin at bedtime is beneficial.

Yki-Jarvinen does not disclose oral administration of insulin. However, each of the secondary references discloses orally administrable insulin, and the benefits associated therewith.

Accordingly, it would have been obvious to one of ordinary skill to use orally administrable insulin at bedtime.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lukton whose telephone number is 571-272-0952. The examiner can normally be reached Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang, can be reached at (571)272-0562. The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-1600.

D. Kuk Lan

DAVID LUKTON, PH.D. PRIMARY EXAMINER